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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/087,508	03/01/2002	Seiji Yoshimura	4321	4072	
21553 75	90 04/21/2005		EXAM	INER	
FASSE PATENT ATTORNEYS, P.A.			MERCADO,	MERCADO, JULIAN A	
	P.O. BOX 726 HAMPDEN, ME 04444-0726			PAPER NUMBER	
			1745		
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DATE MAILED: 04/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/087,508	YOSHIMURA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Julian Mercado	1745				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	NN. R 1.136(a). In no event, however, may a . I reply within the statutory minimum of thi riod will apply and will expire SIX (6) MOI atule, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 1	7 March 2005.					
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• •	<i>,</i> —					
closed in accordance with the practice und	er Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims		·				
 4) Claim(s) 1-4 is/are pending in the application 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 						
8) Claim(s) are subject to restriction are	nd/or election requirement.	•				
Application Papers		,				
9) The specification is objected to by the Exar 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeya rrection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/St Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)				

U.S. Patent and Trademark Offic PTOL-326 (Rev. 1-04)

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Application/Control Number: 10/087,508

Art Unit: 1745

DETAILED ACTION

Remarks

This Office action is responsive to applicant's amendment filed March 17, 2005.

Claims 5-11 have been canceled. Claims 1-4 are pending.

This Office action presents a new ground of rejection and is therefore made NON-FINAL.

Claim Rejections - 35 USC § 112

The rejection of claims 5-11 under 35 U.S.C. 112, first paragraph is deemed most in view of the cancellation of these claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimura et al. (U.S. Pat. 5,578,395) in view of Ebel et al. (U.S. Pat. 5,114,811)

At the outset, the examiner acknowledges applicant's remarks that the range of boron in Yoshimura et al., calculated as 0.2 to 4 wt. %, overlaps with the claimed 0.1 to 3 wt. %.

Application/Control Number: 10/087,508

Art Unit: 1745

As noted in the *Conclusion* section of the prior Office action, Yoshimura et al. is cited to teach a lithium battery having a positive electrode containing manganese dioxide. (Table 1) As the scope of the present claim does not preclude a composite transition metal oxide material which contains manganese dioxide, Yoshimura et al. teaches a composite of lithium manganese dioxide and manganese dioxide having boron overlapping with the claimed range. (col. 2 line 30-35)

Yoshimura further teaches a lithium alloy negative electrode (col. 5 line 20-22), however, the amount of aluminum in the alloy is not disclosed. Ebel et al. teaches an anode for a lithium battery comprising an alloy of lithium aluminum. (col. 3 line 33 et seq.) The amount of aluminum is from 0% to about 50% by weight. As to the claimed range of 0.05 to 2%, absent of unexpected results it is asserted that the amount of aluminum is an optimizable parameter for a result-effective variable. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980) To this extent, Ebel et al. teaches that "[t]he greater the amount of aluminum present by weight in the alloy the lower the energy density of the cell". (line 37-41)

As to claims 2 and 3, the process limitations therein are not given patentable weight as these limitations does not give breadth or scope to the product claim. The claimed product appears to be the same or similar to the prior art product insofar as being a positive electrode containing manganese dioxide and boron. In the event that any differences can be shown by the product of the product-by-process claims 2 and 3, such differences would have been obvious to the skilled artisan as a routine modification of the product absent of a showing of unexpected results. *In re Thorpe*, 227 USPQ 964 (Fed. Cir. 1985).

Art Unit: 1745

The examiner notes that this ground of rejection is applied towards the claims in that claim 1 does not limit the claimed battery as a primary battery, nor does the claim limit the active material in the positive electrode as consisting of manganese dioxide only.

Allowable Subject Matter

The allowability of claims 1-4 has been rescinded in view of the new ground of rejection set forth above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian Mercado whose telephone number is (571) 272-1289. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/087,508

Art Unit: 1745

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

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STEPHEN KALAFUT PRIMARY EXAMINED